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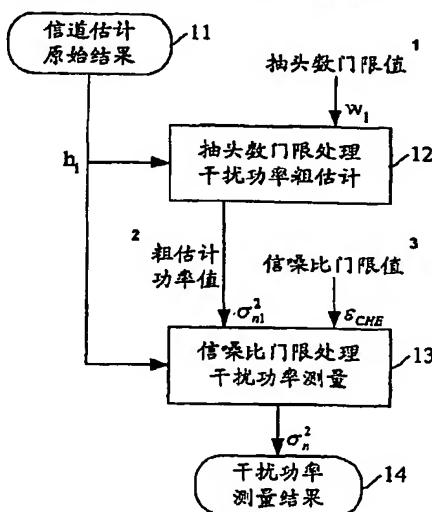
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(54) Title: A INTERFERENCE POWER DETECTION METHOD IN TIME-SLOT CDMA SYSTEM

(54) 发明名称: 时隙CDMA系统干扰功率测量方法



- 1... TAP NUMBER THRESHOLD
- 2... ESTIMATION POWER VALUE
- 3... SIGNAL-NOISE RATIO THRESHOLD
- 11.. CHANNEL ESTIMATION PRIMARY RESULT
- 12.. TAP NUMBER THRESHOLD PROCESSING  
INTERFERENCE POWER ESTIMATION
- 13.. SIGNAL-NOISE RATIO THRESHOLD PROCESSING  
INTERFERENCE POWER DETECTION
- 14.. INTERFERENCE POWER DETECTION RESULT

(57) Abstract: The present invention relates to a interference power detection method in time-slot CDMA system, the method is proposed by some applications in time-slot CDMA system, particularly in a downlink receiving device. Comprising: Doing a channel estimation to input received signal using Midamble Code to obtain a primary channel response estimation result  $h_i$ ; Giving tap number threshold  $W_1$ , extracting the estimation result of  $W_1$  tap's; channel response having lower power as a estimation result of interference power, from the primary channel response estimation result  $h_i$ , according to  $W_1$ ; Using the interference power estimation result and a given signal-noise ratio threshold, doing a threshold processing to the primary channel response estimation result by means of signal-noise ratio threshold postprocessing method; Before the threshold processing, compensating the error possibly generated by the interference power estimation, and doing a threshold processing using compensated power threshold to obtain a precision detection result. The method may provide a reliable detection to interference power in time-slot CDMA system without idle-channel estimation windows information.

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